

Title (en)  
DEFLECTION MECHANISM OF AN EAR-NOSE-THROAT TOOL

Title (de)  
UMLENKMECHANISMUS FÜR EIN HALS-NASEN-OHREN-INSTRUMENT

Title (fr)  
MÉCANISME DE DÉVIATION D'UN OUTIL OTORHINOLARYNGOLOGIQUE

Publication  
**EP 4084707 B1 20240821 (EN)**

Application  
**EP 20838614 A 20201215**

Priority  
• US 201916730772 A 20191230  
• IB 2020061944 W 20201215

Abstract (en)  
[origin: US2021196299A1] A medical tool includes, a deflectable distal end, at least a pull wire, and a deflection assembly. The at least pull wire having a first end coupled to the distal end of the medical tool and configured to be moved for deflecting the distal end. The deflection assembly is coupled to a second end of at least the pull wire and is configured to control a deflection of the distal end. The deflection assembly includes a first gear having a first rotation axis, and a second gear, having a second rotation axis and including a jagged surface for integrating with the first gear. The jagged surface is slanted relative to the second rotation axis, and when the first gear rotates, the second gear is configured to be rotated by the first gear, to move along the second rotation axis and to deflect the distal end by moving the pull wire.

IPC 8 full level  
**A61B 17/24** (2006.01); **A61B 17/34** (2006.01)

CPC (source: EP IL US)  
**A61B 1/05** (2013.01 - IL); **A61B 1/0684** (2013.01 - IL); **A61B 5/062** (2013.01 - IL); **A61B 5/066** (2013.01 - IL); **A61B 5/6817** (2013.01 - IL); **A61B 5/6819** (2013.01 - IL); **A61B 5/682** (2013.01 - IL); **A61B 17/24** (2013.01 - EP IL US); **A61B 17/3421** (2013.01 - EP IL); **A61B 17/3423** (2013.01 - IL US); **A61M 1/84** (2021.05 - IL); **A61M 25/0136** (2013.01 - IL); **A61M 25/09** (2013.01 - IL); **A61M 25/10** (2013.01 - IL); **A61B 1/05** (2013.01 - US); **A61B 1/0684** (2013.01 - US); **A61B 5/062** (2013.01 - US); **A61B 5/066** (2013.01 - US); **A61B 5/6817** (2013.01 - US); **A61B 5/6819** (2013.01 - US); **A61B 5/682** (2013.01 - US); **A61B 2017/003** (2013.01 - EP IL); **A61B 2017/00323** (2013.01 - IL US); **A61B 2017/00526** (2013.01 - IL US); **A61B 2090/3762** (2016.02 - IL US); **A61M 1/84** (2021.05 - US); **A61M 25/0136** (2013.01 - US); **A61M 25/09** (2013.01 - US); **A61M 25/10** (2013.01 - US); **A61M 2025/015** (2013.01 - IL US)

Citation (examination)  
US 2007156224 A1 20070705 - CIOANTA IULIAN [US], et al

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**US 11553937 B2 20230117**; **US 2021196299 A1 20210701**; CN 114901165 A 20220812; EP 4084707 A1 20221109; EP 4084707 B1 20240821; IL 294223 A 20220801; JP 2023508542 A 20230302; WO 2021137078 A1 20210708

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**US 201916730772 A 20191230**; CN 202080091081 A 20201215; EP 20838614 A 20201215; IB 2020061944 W 20201215; IL 29422322 A 20220622; JP 2022540419 A 20201215